



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Form Approved OMB No. 2070-0060

401 M Street, S.W.

WASHINGTON, D.C. 20460

**Paperwork Reduction Act Notice:** The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instruction and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington DC 20460. Do not send the form to this address.

## DATA MATRIX

Date: <b>October 8, 2012</b>	EPA Reg No./ File Symbol <b>9804-9</b>	Page 1 of 3
Applicant's/Registrant's Name and Address: <b>Bio-Cide International, Inc.</b> <b>O. Box 722170</b> <b>Norman, OK 73070-8644</b>	Product: <b>ProOxine</b>	
Ingredient: <b>Chlorine Dioxide</b>		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.1550	Product Identity and Composition	48520101	Bio-Cide International, Inc.	OWN	
830.1600	Description of Materials Used to Produce the Product	48520101	Bio-Cide International, Inc.	OWN	
830.1620 . . . . .	Description of Production Process	48520101	Bio-Cide International, Inc.	OWN	
830.1650 . . . . .	Description of Formulation Process	48520101	Bio-Cide International, Inc.	OWN	
830.1670 .	Discussion of Formation of Impurities	48520101	Bio-Cide International, Inc.	OWN	
830.1700 . . . . .	Preliminary Analysis		Bio-Cide International, Inc.	OWN	
830.1750 . . . . .	Certified Limits	48520101	Bio-Cide International, Inc.	OWN	
830.1800 . . . . .	Enforcement Analytical Method	48520103	Bio-Cide International, Inc.	OWN	
830.6302 . . . . .	Color	48520102	Bio-Cide International, Inc.	OWN	
830.6303 . . . . .	Physical State	48520102	Bio-Cide International, Inc.	OWN	
830.6304 . . . . .	Odor	48520102	Bio-Cide International, Inc.	OWN	
830.6314	Oxidation/Reduction	44404003	Bio-Cide International, Inc.	OWN	
830.6315	Flammability				NR-Product does not contain combustible liquids

Signature 	Name and Title Connie Welch, Agent	Date 10/08/2012
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## DATA MATRIX

Date: <b>October 8, 2012</b>	EPA Reg No./ File Symbol <b>9804-9</b>	Page 2 of 3
Applicant's/Registrant's Name and Address: <b>Bio-Cide International, Inc.</b> <b>P.O. Box 722170</b> <b>Norman, OK 73070-8644</b>	Product: <b>ProOxine</b>	
Ingredient: <b>Chlorine Dioxide</b>		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6316	Explodability				NR-Product is not potentially explosive
830.6317	Storage Stability	44404004	Bio-Cide International, Inc.	OWN	
830.6319	Miscibility			OWN	NR-Product is not an emulsifiable liquid to be diluted with petroleum solvents
830.6320	Corrosion Characteristics	44404004	Bio-Cide International, Inc.	OWN	
830.6321	Dielectric Breakdown				NR-Product is not an insulating conductive
830.7000	pH	48520102	Bio-Cide International, Inc.	OWN	
830.7100	Viscosity	48520102	Bio-Cide International, Inc.	OWN	
830.7300	Density/Relative Density	48520102	Bio-Cide International, Inc.	OWN	
870.1100	Acute Oral	46369701	Bio-Cide International, Inc.	OWN	
870.1200	Acute Dermal	46369701	Bio-Cide International, Inc.	OWN	

Signature

Name and Title

Connie Welch, Agent

Date

10/08/2012





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## DATA MATRIX

Date: **October 8, 2012**EPA Reg No./ File Symbol **9804-9**

Page 3 of 3

Applicant's/Registrant's Name and Address:

**Bio-Cide International, Inc.****P.O. Box 722170****Norman, OK 73070-8644**

Product:

**ProOxine**Ingredient: **Chlorine Dioxide**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.1300	Acute Inhalation	46110402	Bio-Cide International, Inc.	OWN	
870.2500	Acute Dermal Irritation	46369702	Bio-Cide International, Inc.	OWN	
870.2600	Skin Sensitization	48450701, 02	BPD Registration Group	PER	
870.2400	Acute Eye Irritation	46133801	Bio-Cide International, Inc.	OWN	

Signature

Name and Title

Connie Welch, Agent

Date

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## DATA MATRIX

Date: March 13, 2013

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Page 1 of 3

Applicant's/Registrant's Name and Address:

Bio-Cide International, Inc.

P.O. Box 722170

Norman, OK 73070-8644

Product:

ProOxine

Ingredient: Chlorine Dioxide

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.1550	Product Identity and Composition	48520101	Bio-Cide International, Inc.	OWN	
830.1600	Description of Materials Used to Produce the Product	48520101	Bio-Cide International, Inc.	OWN	
830.1620	Description of Production Process	48520101	Bio-Cide International, Inc.	OWN	
830.1650	Description of Formulation Process	48520101	Bio-Cide International, Inc.	OWN	
830.1670	Discussion of Formation of Impurities	48520101	Bio-Cide International, Inc.	OWN	
830.1700	Preliminary Analysis	48970801	Bio-Cide International, Inc.	OWN	
830.1750	Certified Limits	48520101	Bio-Cide International, Inc.	OWN	
830.1800	Enforcement Analytical Method	48520103	Bio-Cide International, Inc.	OWN	
830.6302	Color	48520102	Bio-Cide International, Inc.	OWN	
830.6303	Physical State	48520102	Bio-Cide International, Inc.	OWN	
830.6304	Odor	48520102	Bio-Cide International, Inc.	OWN	
830.6314	Oxidation/Reduction	44404003	Bio-Cide International, Inc.	OWN	
830.6315	Flammability				NR-Product does not contain combustible liquids

Signature

Name and Title  
Connie Welch, AgentDate  
03/13/13





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Date: March 13, 2013

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Page 2 of 3

Applicant's/Registrant's Name and Address:

Bio-Cide International, Inc.

P.O. Box 722170

Norman, OK 73070-8644

Product:

ProOxine

Ingredient: Chlorine Dioxide

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6316	Explosibility				NR-Product is not potentially explosive
830.6317	Storage Stability	44404004	Bio-Cide International, Inc.	OWN	
830.6319	Miscibility			OWN	NR-Product is not an emulsifiable liquid to be diluted with petroleum solvents
830.6320	Corrosion Characteristics	44404004	Bio-Cide International, Inc.	OWN	
830.6321	Dielectric Breakdown				NR-Product is not an insulating conductive
830.7000	pH	48520102	Bio-Cide International, Inc.	OWN	
830.7100	Viscosity	48520102	Bio-Cide International, Inc.	OWN	
830.7300	Density/Relative Density	48520102	Bio-Cide International, Inc.	OWN	
870.1100	Acute Oral		Bio-Cide International, Inc.	OWN	
870.1200	Acute Dermal	46369701	Bio-Cide International, Inc.	OWN	

Signature

Name and Title

Connie Welch, Agent

Date

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Date: **March 13, 2013**EPA Reg No./ File Symbol **9804-9**

Page 3 of 3

Applicant's/Registrant's Name and Address:

**Bio-Cide International, Inc.****P.O. Box 722170****Norman, OK 73070-8644**

Product:

**ProOxine**Ingredient: **Chlorine Dioxide**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.1300	Acute Inhalation	46110402	Bio-Cide International, Inc.	OWN	
870.2500	Acute Dermal Irritation	46369702	Bio-Cide International, Inc.	OWN	
870.2600	Skin Sensitization	48450701, 02	BPD Registration Group	PER	
870.2400	Acute Eye Irritation	46133801	Bio-Cide International, Inc.	OWN	

Signature

Name and Title

Connie Welch, Agent

Date

03/13/13





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## DATA MATRIX

Date: **April 3, 2012**EPA Reg No./ File Symbol **9804-9**

Page 1 of 3

Applicant's/Registrant's Name and Address:

**Bio-Cide International, Inc.****Box 722170****Norman, OK 73070-8644**

Product:

**ProOxine**Ingredient: **Chlorine Dioxide**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.1550	Product Identity and Composition	48520101	Bio-Cide International, Inc.	OWN	
830.1600	Description of Materials Used to Produce the Product	48520101	Bio-Cide International, Inc.	OWN	
830.1620	Description of Production Process	48520101	Bio-Cide International, Inc.	OWN	
830.1650	Description of Formulation Process	48520101	Bio-Cide International, Inc.	OWN	
830.1670	Discussion of Formation of Impurities	48520101	Bio-Cide International, Inc.	OWN	
830.1750	Certified Limits	48520101	Bio-Cide International, Inc.	OWN	
830.1800	Enforcement Analytical Method	48520103	Bio-Cide International, Inc.	OWN	
830.6302	Color	48520102	Bio-Cide International, Inc.	OWN	
830.6303	Physical State	48520102	Bio-Cide International, Inc.	OWN	
830.6304	Odor	48520102	Bio-Cide International, Inc.	OWN	
830.6314	Oxidation/Reduction	44404003	Bio-Cide International, Inc.	OWN	
830.6315	Flammability				NR-Product does not contain combustible liquids

Signature

Name and Title

Connie Welch, Agent

Connie Welch &amp; Associates

Date

04/3/2012



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Page 2 of 3

Applicant's/Registrant's Name and Address:

**Bio-Cide International, Inc.****P.O. Box 722170****Norman, OK 73070-8644**

Product:

**ProOxine**Ingredient: **Chlorine Dioxide**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6316	Explosibility				NR-Product is not potentially explosive
830.6317	Storage Stability	44404004	Bio-Cide International, Inc.	OWN	
830.6319	Miscibility			OWN	NR-Product is not an emulsifiable liquid to be diluted with petroleum solvents
830.6320	Corrosion Characteristics	44404004	Bio-Cide International, Inc.	OWN	
830.6321	Dielectric Breakdown				NR-Product is not an insulating conductive
830.7000	pH	48520102	Bio-Cide International, Inc.	OWN	
830.7100	Viscosity	48520102	Bio-Cide International, Inc.	OWN	
830.7300	Density/Relative Density	48520102	Bio-Cide International, Inc.	OWN	
870.1100	Acute Oral	46369701	Bio-Cide International, Inc.	OWN	
870.1200	Acute Dermal	46369701	Bio-Cide International, Inc.	OWN	

Signature

Name and Title

Connie Welch, Agent

Connie Welch &amp; Associates

Date

04/3/2012





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## DATA MATRIX

Date: **April 3, 2012**EPA Reg No./ File Symbol **9804-9**

Page 3 of 3

Applicant's/Registrant's Name and Address:

**Bio-Cide International, Inc.****Box 722170****Norman, OK 73070-8644**

Product:

**ProOxine**Ingredient: **Chlorine Dioxide**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.1300	Acute Inhalation	46110402	Bio-Cide International, Inc.	OWN	
870.2500	Acute Dermal Irritation	46369702	Bio-Cide International, Inc.	OWN	
870.2600	Skin Sensitization	48450701, 02	BPD Registration Group	PER	
870.2400	Acute Eye Irritation	46133801	Bio-Cide International, Inc.	OWN	

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Signature

Name and Title

Connie Welch, Agent

Connie Welch &amp; Associates

Date

04/3/2012

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## DATA MATRIX

Date: April 24, 2013

EPA Reg No./ File Symbol 9804-9

Page 1 of 1

**Applicant's/Registrant's Name and Address:**

**Bio-Cide International, Inc.**

**P.O. Box 722170**

**Norman, OK 73070-8644**

**Product:**  
**ProOxine**

**Ingredient: Chlorine Dioxide**

[illegible]

Signature \_\_\_\_\_

**Name and Title**  
**Connie Welch, Agent**

Date  
104/24/13





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
401 M Street, S.W.  
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

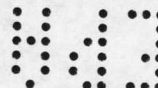
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DATA MATRIX

Date	EPA Reg No./File Symbol 9804-9		Page 1 of 1		
Applicant's/Registrant's Name & Address Bio-Cide International, Inc. P.O. Box 722170 Norman, OK 73070		Product ProOxine			
Ingredient Chlorine Dioxide					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.1550	Product Identity and Composition		Bio-Cide International, Inc.	Own	
830.1600	Description of Materials Used to Produce the Product		Bio-Cide International, Inc.	Own	
830.1620	Description of Production Process		Bio-Cide International, Inc.	Own	
830.1650	Description of Formulation Process		Bio-Cide International, Inc.	Own	
830.1670	Discussion of Formation of Impurities		Bio-Cide International, Inc.	Own	
830.1750	Certified Limits		Bio-Cide International, Inc.	Own	
830.1800	Enforcement Analytical Method		Bio-Cide International, Inc.	Own	
830.6302	Color		Bio-Cide International, Inc.	Own	
830.6303	Physical State		Bio-Cide International, Inc.	Own	
830.6304	Odor		Bio-Cide International, Inc.	Own	
830.7000	pH of Water Solutions or Suspensions		Bio-Cide International, Inc.	Own	
830.7100	Viscosity		Bio-Cide International, Inc.	Own	
830.7300	Density/Relative Density/Bulk Density		Bio-Cide International, Inc.	Own	
Signature <i>James P. Ringo</i>		Name and Title Jim Ringo, Director, Regulatory Affairs		Date 5/24/11	

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Agency Internal Use Copy



**401 M Street, S.W.**

**WASHINGTON, D.C. 20460**

## DATA MATRIX

Date: **July 2, 2013**EPA Reg No./ File Symbol **9804-9**

Page 1 of 1

Applicant's/Registrant's Name and Address:

**Bio-Cide International, Inc.**

**P.O. Box 722170**

Norman, OK 73070-8644

Product:

## ProOxine

**Ingredient: Chlorine Dioxide**

[illegible]

Signature \_\_\_\_\_

[illegible]

Connie Welch, Agent

Date \_\_\_\_\_

07/2/13





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## DATA MATRIX

Date: **July 22, 2014**EPA Reg No./ File Symbol **N/A**

Page 1 of 5

Applicant's/Registrant's Name and Address:

**Bio-Cide International, Inc.****P.O. Box 722170****Norman, OK 73070-8644**

Product:

**Chlorine Dioxide**Ingredient: **Chlorine Dioxide**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
<b>Generic</b>					
830.1550	Product Identity and Composition	48520101	Bio-Cide International, Inc.	OWN	
830.1600	Description of Materials Used to Produce the Product	48520101	Bio-Cide International, Inc.	OWN	
830.1620	Description of Production Process	48520101	Bio-Cide International, Inc.	OWN	
830.1650	Description of Formulation Process	48520101	Bio-Cide International, Inc.	OWN	
830.1670	Discussion of Formation of Impurities	48520101	Bio-Cide International, Inc.	OWN	
830.1700	Preliminary Analysis	48970801	Bio-Cide International, Inc.	OWN	
830.1750	Certified Limits	48520101	Bio-Cide International, Inc.	OWN	
830.1800	Enforcement Analytical Method	48520103	Bio-Cide International, Inc.	OWN	
830.6302	Color	41467601,02	Chlorine Dioxide/ Sodium Chlorite RED	OLD	
830.6303	Physical State	41467601,02	Chlorine Dioxide/ Sodium Chlorite RED	OLD	
830.6304	Odor	41467601,02	Chlorine Dioxide/ Sodium Chlorite RED	OLD	
830.7200	Melting Point	41467601,02	Chlorine Dioxide/ Sodium Chlorite RED	OLD	
830.7220	Boiling Point	41467601, 02	Chlorine Dioxide/ Sodium Chlorite RED	OLD	
830.7300	Density	41467601,02	Chlorine Dioxide/ Sodium Chlorite RED	OLD	
830.7840, 7860	Solubility	41467601,02	Chlorine Dioxide/ Sodium Chlorite RED	OLD	

Signature

Name and Title

Connie Welch, Authorized Agent

Date

07/22/14



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## DATA MATRIX

Date: July 22, 2014

EPA Reg No./ File Symbol N/A

Page 2 of 5

Applicant's/Registrant's Name and Address:

Bio-Cide International, Inc.

P.O. Box 722170

Norman, OK 73070-8644

Product:

Chlorine Dioxide

Ingredient: Chlorine Dioxide

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7950	Vapor Pressure	41467601,02	Chlorine Dioxide/ Sodium Chlorite RED	OLD	
830.7550, 7560, 7570	Partition Coefficient (Octanol/Water)	41467601,02	Chlorine Dioxide/ Sodium Chlorite RED	OLD	
830.7000	pH	41467601,02	Chlorine Dioxide/ Sodium Chlorite RED	OLD	
830.6313	Stability	41467601,02	Chlorine Dioxide/ Sodium Chlorite RED	OLD	
830.6314	Oxidizing/Reduction Action	41467601,02	Chlorine Dioxide/ Sodium Chlorite RED	OLD	
830.6315	Flammability	41467601,02	Chlorine Dioxide/ Sodium Chlorite RED	OLD	
830.6316	Explosibility	41467601,02	Chlorine Dioxide/ Sodium Chlorite RED	OLD	
830.6317	Storage Stability	41467601,02	Chlorine Dioxide/ Sodium Chlorite RED	OLD	
830.7000	pH	41467601,02	Chlorine Dioxide/ Sodium Chlorite RED	OLD	
830.7100	Viscosity	41467601,02	Chlorine Dioxide/ Sodium Chlorite RED	OLD	
830.7300	Density/Relative Density	41467601,02	Chlorine Dioxide/ Sodium Chlorite RED	OLD	
870.1100	Acute Oral	43558601	Chlorine Dioxide/ Sodium Chlorite RED	OLD	
870.1200	Acute Dermal	40168704	Chlorine Dioxide/ Sodium Chlorite RED	OLD	
870.1300	Acute Inhalation	42484101	Chlorine Dioxide/ Sodium Chlorite RED	OLD	
870.2500	Acute Dermal Irritation	40168704	Chlorine Dioxide/ Sodium Chlorite RED	OLD	
870.2600	Skin Sensitization	48450701, 02	BPD Registration Group	PER	
870.2400	Acute Eye Irritation	43441903	Chlorine Dioxide/ Sodium Chlorite RED	OWN	
870.3100	90-Day Oral (gavage)-Rat	42301601	Chlorine Dioxide/ Sodium Chlorite RED	OLD	

Signature

Name and Title

Connie Welch, Authorized Agent

Date

07/22/14





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## DATA MATRIX

Date: July 22, 2014

EPA Reg No./ File Symbol N/A

Page 3 of 5

Applicant's/Registrant's Name and Address:

Bio-Cide International, Inc.

P.O. Box 722170

Norman, OK 73070-8644

Product:

Chlorine Dioxide

Ingredient: Chlorine Dioxide

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.3465	28/90-Day Inhalation- Rat- "On the Action of ClO <sub>2</sub> at low concentrations on laboratory animals"; "On the Toxicology of Chlorine Dioxide"		Chlorine Dioxide/ Sodium Chlorite RED	PL	
870.3700	Developmental Toxicity Rat – Effects of Chlorine Dioxide on Thyroid function in Neonatal Rats.		Chlorine Dioxide/ Sodium Chlorite RED	PL	
870.3700	Developmental Toxicity - Rabbit	41715701	Chlorine Dioxide/ Sodium Chlorite RED	OLD	
870.3800	Two-generation Reproduction-Rat	45358901	Chlorine Dioxide/ Sodium Chlorite RED	OLD	
870.5265	Bacterial Reverse Mutation Assay- Evaluation of Chemicals Used for Drinking Water Disinfection for Production of Chromosomal Damage and Sperm-Head abnormalities in Mice		Chlorine Dioxide/ Sodium Chlorite RED	PL	
870.5300	Detection of Gene Mutations in Somatic Cells	ACC265867	Chlorine Dioxide/ Sodium Chlorite RED	OLD	

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Bio-Cide International, Inc.  
P.O. Box 722170  
Norman, OK 73070-8644

Product:

Chlorine Dioxide

Ingredient: Chlorine Dioxide

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.5385	Micronucleus Assay- Evaluation of Chemicals Used for Drinking Water Disinfection for Production of Chromosomal Damage and Sperm-Head abnormalities in Mice		Chlorine Dioxide/ Sodium Chlorite RED	PL	
870.4200	Carcinogenicity	Waiver Request	ACC- Sodium Chlorite-Chlorine Dioxide Panel	PER	
870.1300	Technical Sodium Chlorite, Acute Inhalation Toxicity Study in Rats	49386301	ACC- Sodium Chlorite-Chlorine Dioxide Panel	PER	
850.1300	Fish Early Life-Stage Testing- Freshwater	49270201	ACC- Sodium Chlorite-Chlorine Dioxide Panel	PER	
850.4225	Seedling Emergence Does-Response in Rice	49270202	ACC- Sodium Chlorite-Chlorine Dioxide Panel	PER	
850.4250	Vegetative Vigor Dose-Response in Rice	49270203	ACC- Sodium Chlorite-Chlorine Dioxide Panel	PER	
850. 5400	Acute algal dose-response toxicity	49270204 49270205	ACC-Sodium Chlorite-Chlorine Dioxide Panel	PER	

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Product:

Chlorine Dioxide

Ingredient: Chlorine Dioxide

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.2100	Avian Acute Oral Toxicity Test (Quail/Duck)	ACC 259373, ACC 257341, ACC 253378, MRID 31610, ACC 254177, ACC 252854	Chlorine Dioxide/Sodium Chlorite RED	OLD	
850.1075	Fish Acute Toxicity- Freshwater (Rainbow Trout)	94068007, ACC 254181, ACC 254180, ACC69810, ACC 253379, 9406006	Chlorine Dioxide/Sodium Chlorite RED	OLD	
850.1010	Acute Aquatic Invertebrate Toxicity	146162, 141149, 131350, ACC 254182, 94068009	Chlorine Dioxide/Sodium Chlorite RED	OLD	

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